

## **IEEE Transactions on Haptics Call for Papers Special Issue on Haptic Human-Robot Interaction**

Touch is an essential component of interaction in collaborative environments. Haptic human-robot interaction is still largely underrepresented compared to other fields of interaction research such as communication via speech and gestures. Safe and intuitive haptic human-robot interactions will be critical for future robotic systems that interact directly with humans, assist them in performing physical tasks, enhance motor training and rehabilitation, and even interact socially such as shaking hands and dancing.

The history of engineering has many examples of machines that solve human problems in a distinctly non-human way, and much has been learned from these examples. However, Human-Robot Interaction is a field where it seems that imitating and understanding biological systems may be of particular interest. This makes haptic human-human and human-robot interaction research inherently highly interdisciplinary. This special issue will collect various views on this topic by bringing together researchers from haptics, autonomous control, psychology, human-computer interaction, human-robot interaction (physical and cognitive), neurorehabilitation, and neuroscience.

We invite papers addressing all aspects of haptic human-human, human-agent, and human-robot interaction.

### **REVISED Timeline**

September 15, 2011	First submission of papers
December 1, 2011	Deadline for paper submission.
March 2011	Final deadline for the First decisions to authors
April 2012	Final deadline for Revisions
May 2012	Final decisions to authors
June 2012	Final publication materials due from authors
September 2012	Expected date of publication

Accepted papers will appear online as soon as they are accepted

### **Submission Process**

Visit <http://www.computer.org/toh> to view formatting requirements, and submit your paper at <https://mc.manuscriptcentral.com/cs-ieee>. When uploading your paper, please select the appropriate special issue title under the category "Manuscript Type". For more information about this special issue, contact any of the Guest Editors below.

Decisions would be made on a paper by paper basis without delay.

To expedite the review process, we encourage potential authors to submit a letter of intent to one of the guest editors by email with the approximate title of the manuscript. Accepted papers will appear online as soon as they are accepted.

### **Guest Editors**

Dr. Amir Karniel, Ben-Gurion University of the Negev ([akarniel@bgu.ac.il](mailto:akarniel@bgu.ac.il))

Dr. Angelika Peer, Technische Universität München ([peer@lssr.ei.tum.de](mailto:peer@lssr.ei.tum.de))

Dr. Opher Donchin, Ben-Gurion University of the Negev ([donchin@bgu.ac.il](mailto:donchin@bgu.ac.il))

Dr. Ferdinando A. Mussa-Ivaldi, Northwestern University ([sandro@northwestern.edu](mailto:sandro@northwestern.edu))

Dr. Gerald E. Loeb, University of Southern California ([gloeb@usc.edu](mailto:gloeb@usc.edu))